

Listing of Claims**Claims 1-65 (Cancelled)**

66. (Amended) An antibody that specifically binds to an ADMP capable of cleaving the Glu³⁷³-Ala³⁷⁴ peptide bond of an aggrecan core protein, wherein said ADMP comprises amino acids 1-837 of SEQ ID NO:2 and consists of the following domains from the N-terminus to the C-terminus; 1) a propeptide domain containing a furin cleavage site, followed by 2) a metalloprotease domain, followed by 3) a disintegrin-like domain, and 4) a thrombospondin homologous domain.

67. (Cancelled)

68. (Cancelled)

69. (Previously presented) The antibody of claim 66 which is a monoclonal antibody.

70. (Previously presented) A method of detecting the presence of an ADMP in a biological sample which comprises contacting the sample with an antibody of claim 66.

71. (Cancelled)

72. (Cancelled)

73. (Cancelled)